

DESCRIPTIONS OF NEW AUSTRALIAN LEPIDOPTERA.

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SYNTOMIDIDÆ.

SYNTOMIS CREMNOTHERMA, n.sp.

♂. 22 mm. Head, thorax, abdomen and palpi orange, abdomen with two or three black segments beneath, anal tuft black. Antennæ fuscous, pectinations 1. Legs orange, tibiæ and tarsi blackish. Forewings elongate-triangular, considerably dilated posteriorly, costa straight, hindmargin rounded; orange, with black markings; a narrow line along costa to about end of cell, thence becoming confluent with a thick costal streak, continued around apex and along hind margin to anal angle, broader towards apex and narrowed towards anal angle, and with a moderate, somewhat cuneiform, indentation above anal angle; a thick oblique bar at end of cell; a thick line along inner margin throughout, emitting at $\frac{1}{4}$ a moderately erect band, reaching more than half across wing, much flattened on inner margin, and somewhat curved inwards on upper half; all veins outlined with blackish: cilia blackish. Hindwings with hindmargin rounded; orange; an irregular blackish spot at end of cell; a moderately broad black hindmarginal band, with a well defined obtuse projection near anal angle; veins more or less outlined with blackish; cilia as in forewings.

Irrapatana, South (Central) Australia; in November.

Very distinct from any of its Australian congeners.

NOCTUINA.

CARADRINIDÆ.

LEUCANIA STENOGRAPHA, n.sp.

♂♀. 38-40 mm. Head, palpi, thorax, legs and abdomen ochreous-fuscous, face with two narrow interrupted fuscous bars, thorax with two transverse anterior bands, anterior one very fine, posterior very broad, coxæ densely hairy, posterior pair mixed with fuscous. Antennæ fuscous-ochreous. Abdomen beneath more ochreous. Forewings elongate, moderately dilated, costa nearly straight, hindmargin gently rounded; ochreous, strongly infuscated throughout with fine fuscous and dark fuscous lines, becoming edged by an equal width of groundcolour on hindmarginal area, which gives the appearance of alternating ochreous and fuscous lines; lower edge of cell becoming very strongly infuscated, sometimes more or less continued as a thick streak to apex; a fine whitish-ochreous spot at end of cell; an outwardly curved row of fine black dots from $\frac{5}{6}$ of costa to inner margin before anal angle; cilia ochreous-fuscous, with a hindmarginal row of black intervenal spots, more pronounced on underside. Hindwings with hindmargin very slightly waved; iridescent-whitish; a fine fuscous hindmarginal line; cilia whitish.

Parkside, South Australia; three specimens, in June.

ORTHOSIA TYPHLOPA, n.sp.

♂♀. 28-32 mm. Head, palpi, antennæ and thorax dark fuscous, thorax broadly blackish on sides, palpi blackish at base externally. Abdomen greyish-fuscous. Legs greyish, strongly infuscated, tarsi banded above with ochreous. Forewings elongate-triangular, costa gently arched, hindmargin hardly rounded, nearly straight; dark fuscous; a waved moderate blackish line from $\frac{1}{4}$ of costa to $\frac{1}{3}$ inner margin, twice dentate, lower dentation acute; a waved double black line from middle of costa, curved outwards and returning to beyond middle of inner margin; orbicular and reniform white, reniform moderately defined; orbicular dot-like; veins

towards hindmargin outlined with black, and with small white dots at hindmarginal extremity, sometimes absent: cilia dark fuscous. Hindwings grey-whitish, fuscous-tinged along hindmargin and more strongly along apical area; cilia whitish, with a fuscous subbasal line, becoming blackish round apex.

Semaphore, South Australia; two specimens, in September.

METAPTILA (?) *PTILOMELA*, n.sp.

♀. 35 mm. Head, thorax and antennæ ashy-grey-whitish. Palpi white, terminal joint infuscated. Thorax with a dense posterior crest, and with a narrow transverse curved anterior black line, and two similar lines, one in middle, and one anterior to crest, obscure. Abdomen silvery-white. Legs whitish, tarsi fuscous, obscurely ringed with whitish. Forewings elongate, moderate, costa arched, hindmargin oblique, hardly rounded; ashy-grey-whitish, with blackish markings; a short narrow line above middle, from base to before first line; first line hardly waved, from $\frac{1}{4}$ costa to $\frac{1}{4}$ inner margin, obliquely outwards on upper half, thence angulated inwards; second line irregularly dentate, from $\frac{3}{4}$ costa to just beyond middle of inner margin, curved inwards on upper $\frac{2}{3}$, and with a broad obtuse angulation above middle, thence curved inwards, acutely angulated above inner margin; orbicular whitish, well defined, and with some raised black scales in centre and encircled with a fine black line; a similar, yet with a more distinct spot of raised scales below and beyond; another indistinct mark above and beyond, preceded by an obscure black spot on costa; reniform whitish, encircled with a fine black line, indented posteriorly, followed beneath by a similar rounded coloured spot; subterminal obscure, blackish, deeply indented; veins towards hindmargin outlined with blackish: cilia ashy-grey, darker at base. Hindwings white, fuscous-tinged around apex and hindmargin to middle; cilia white, fuscous-tinged around apex and upper half of hindmargin.

Melbourne, Victoria; two specimens; I have seen others from Stawell and Sale.

Recalls in some respects a large specimen of *Uraba lugens*, Walk., (*Bombycina*). A new genus will no doubt be required to receive it.

CARADRINA PELTALOMA, n.sp.

♀. 25 mm. Head, thorax and palpi dull whitish, finely irrorated with blackish, terminal joint of palpi fuscous. Abdomen ochreous-yellow. Legs whitish-fuscous, tarsi with whitish rings. Antennæ fuscous, lighter at base. Forewings elongate-triangular, costa nearly straight, hindmargin gently bowed; dull whitish, finely irrorated with blackish, except on hindmarginal area, which is brownish; four obscure fuscous elongate marks on posterior $\frac{2}{3}$ of costal edge; a fine blackish line, starting from second costal mark, continued obliquely outwards towards hindmargin, thence curved inwards beneath and finely traceable to near anal angle; a large fuscous cuneiform spot on inner margin at $\frac{2}{3}$, edged on either side with clear whitish, upper portion mixed with black, its apex imperfectly defined, inclining towards hindmargin; a hindmarginal row of blackish dots: cilia fuscous, somewhat chequered, darker towards base, and with a fine waved whitish basal line. Hindwings with hindmargin faintly crenulate; pale ochreous-yellow; hindmarginal and apical area infuscated, especially towards base; cilia whitish, at base yellow, and with a fuscous parting line, and with two or three fuscous teeth around apical portion of hindmargin.

Broken Hill, N.S.W.; two specimens, in February.

Readily distinguished by the patch on inner margin.

BOMBYCINA.

OCNERIADÆ.

TEARA CORALLIPHORA, n.sp.

♂. 42 mm. Head, palpi and thorax dull whitish, thorax with a longitudinal fuscous mark on posterior half. Legs dull whitish, coxæ and anterior legs mixed with orange. Abdomen ochreous-fuscous, beneath dull whitish. Antennæ fuscous-whitish, pectina-

tions orange, about 10. Forewings elongate-triangular, costa straight, hindmargin waved, bowed, dull whitish; a dentate black transverse line, edged posteriorly by its own width of orange throughout, from costa at about $\frac{2}{3}$ to inner margin at about $\frac{1}{3}$; a second, similar, yet more dentate line parallel to first, edged anteriorly by its own width of orange throughout, from $\frac{3}{4}$ of costa to $\frac{2}{3}$ of inner margin: cilia dull whitish. Hindwings with the hindmargin rounded; fuscous, becoming darker on basal half; cilia as in forewings.

Broken Hill, N.S.W.; two specimens, in September.

SORAMA DRYINA, n.sp.

♀. 40-44 mm. Head, thorax, palpi, antennæ, legs and abdomen grey-whitish. Forewings elongate, moderate, costa moderately arched, hindmargin oblique; whitish, strongly mixed with ochreous and minutely irrorated throughout with blackish scales; an ill-defined ochreous basal patch, outer edge from before $\frac{1}{4}$ of costa to $\frac{1}{6}$ inner margin, limited by an obscure waved line; a moderate V-shaped dark ochreous mark at end of cell, followed by a broad ochreous-fuscous fascia narrowed on inner margin, more or less scalloped on posterior edge, and followed by a clear white fascia, obscure on inner margin; a strongly waved fuscous line in middle of ochreous fascia, hardly traceable on upper third; a thick ochreous submarginal line; sometimes the whole of the wing is more or less obscured with dark fuscous: cilia ochreous, with greyish teeth at extremities of veins. Hindwings greyish-ochreous, with a fine fuscous hindmarginal line; cilia greyish.

Mackay and Brisbane, Queensland; two specimens, in March.

NOTODONTINA.

SELIDOSEMIDÆ.

ECTROPIS HIEROGLYPHICA, n.sp.

♂. 25 mm. Head, thorax, palpi, antennæ and abdomen dull greyish-ochreous, very minutely dusted with blackish-fuscous, face

with an obscure dark fuscous median bar, thorax with narrow transverse blackish anterior and posterior bands, abdomen with blackish segmental bands becoming whitish internally, second more or less wholly fuscous. Legs fuscous, middle and posterior pair strongly mixed with whitish; tibiæ and tarsi with whitish rings. Forewings elongate, moderate, costa straight, hindmargin not waved, oblique, faintly sinuate inwards on lower $\frac{1}{3}$; dull greyish-ochreous, very finely dusted and strigulated with fuscous and dark fuscous; costa finely strigulated throughout with blackish; a fine blackish line, slightly curved inwards, from costa at $\frac{1}{5}$ to inner margin at $\frac{1}{6}$; a black transverse discal mark at end of cell; a well defined fine blackish line, starting on costa just beyond $\frac{3}{4}$, slightly curved inwards and reaching half across wing, thence twice strongly scalloped and reaching nearly to beneath middle of cell, thence returning and ending on inner margin before anal angle, and with a short angulation just above termination; subterminal whitish, obscure, edged anteriorly on upper half by a blackish shade; hindmarginal area more blackish than rest of wing; veins between subterminal and hindmargin outlined with blackish; a fine black hindmarginal line, more or less interrupted on veins: cilia greyish-ochreous, chequered with blackish. Hindwings with hindmargin as in forewings; colour as in forewings, but inner margin more strongly marked; first line and discal dot absent; a faint fuscous line from costa at $\frac{3}{4}$ to below middle of wing, with an obtuse projection, thence continued nearly straight to inner margin in middle; hindmarginal line and cilia as in forewings. Wings beneath white, faintly irrorated with fuscous.

Broken Hill, N.S.W.; one specimen, in October.

Distinct and curiously marked.

ECTROPIS PLECTRONEURA, n.sp.

♂. 26 mm. Head, palpi, antennæ, thorax and abdomen ashy-grey-whitish, face fuscous, antennal pectinations 1, thorax with three black transverse bands, sometimes lost in groundcolour, abdomen with black transverse bands on anterior portion of

segments. Anterior legs blackish, middle and posterior pair greyish. Forewings elongate-triangular, hindmargin hardly waved, bowed; ashy grey-whitish, mixed with blackish; costal edge finely spotted with black; first line slender, from $\frac{1}{6}$ inner margin, reaching half across wing, immediately followed by a second similar line; median shade indistinct; a moderately well defined oblique black line from $\frac{5}{6}$ of costa to just beyond middle of inner margin, with two or three sharp on upper fourth; a moderate thick fuscous parallel shade beyond; subterminal dentate, whitish, preceded by a similar dark fuscous line; veins preceding subterminal more or less outlined with black; a waved black hindmarginal line: cilia dark fuscous, with a black sub-basal line. Hindwings with the hindmargin waved; colour as in forewings, excepting basal half of wing, which is much lighter; median shade moderate, distinct, blackish, upper third hardly traceable; hindmarginal line and cilia as in forewings.

Broken Hill, N.S.W.; three specimens, in April and August.

SELIDOSEMA PETROZONA, n.sp.

♂. 30 mm. Head, thorax, palpi, antennæ and abdomen yellowish-ochreous, face (? fuscous) rubbed, antennal pectinations 6 at greatest length, abdomen with blackish segmental rings. Legs fuscous, posterior pair lighter. Forewings elongate-triangular, hindmargin gently waved, rounded; light ochreous, fuscous-tinged; costal edge narrowly fuscous throughout; first line hardly traceable, lower half very obscure; median shade fuscous, traceable on lower half only; a broad oblique shade of fuscous, from middle of inner margin to hindmargin below apex, darker posteriorly; subterminal whitish, posteriorly edged by its own width with fuscous; a fine fuscous waved hindmarginal line: cilia ochreous-fuscous. Hindwings with hindmargin waved, rounded; colour as in forewings, excepting basal area, which is lighter; first line absent; median shade obscurely fuscous, nearly straight; an elongate, blackish discal dot between shade and second line; second line blackish, twice sinuate, followed by a

moderately broad fuscous parallel shade; subterminal and hind-marginal lines as in forewings; cilia as in forewings.

Melbourne, Victoria; two specimens, in January.

In the *excursaria* group.

SELIDOSEMA DIAGRAMMA, n.sp.

♂. 23 mm. Head, palpi, thorax and abdomen dull ochreous-fuscous, finely and densely irrorated with whitish, abdomen with blackish segmental bands, finely edged posteriorly with whitish, face fuscous. Antennæ fuscous, ciliation 4, apical fourth simple. Legs fuscous, tibiæ and tarsi with whitish rings. Forewings elongate-triangular, hindmargin faintly waved; fuscous or dull ochreous-fuscous, finely and densely irrorated with whitish; lines fine, black, distinct; first waved, from costa at $\frac{1}{4}$ to base of inner margin, angulated outwards beneath costa, and anteriorly throughout by a fine fuscous shade; median shade obsolete; a blackish discal dot at end of cell; second line gently waved, from costa at $\frac{3}{4}$, curved inwards to beneath and beyond discal spot and ending on inner margin in middle, posteriorly edged by a fine fuscous shade throughout; a small mark in middle of disc touching second line; subterminal waved, obscurely whitish; a fine black hind-marginal line, becoming somewhat dot-like on veins: cilia ochreous-fuscous. Hindwings with hindmargin waved; colour as in forewings; first line absent, except on inner margin; a black discal dot; second line nearly straight, hardly waved, from costa at $\frac{3}{4}$ to inner margin at $\frac{2}{3}$; subterminal and hindmarginal lines and cilia as in forewings.

Broken Hill, N.S.W.; one specimen, in April.

CHLENIAS SERINA, n.sp.

♂♀. 28-32 mm. Head, thorax and palpi dark fuscous, face greyish, somewhat protuberant, thorax with a well-developed anterior crest. Antennæ fuscous, pectinations ochreous, 4. Abdomen greyish. Legs fuscous, irrorated with whitish, posterior pair whitish. Forewings elongate-triangular, costa gently arched, hindmargin hardly waved; light fuscous, finely irrorated with

blackish scales; markings black, obscure; a moderate line, twice dentate, from costa at $\frac{1}{4}$ to inner margin at $\frac{1}{3}$; a narrow median shade, strongly curved outwards above middle, from costa in middle to middle of inner margin; second line shaped as median shade, somewhat interrupted on and above curve, from costa at about $\frac{3}{4}$ to inner margin at $\frac{2}{3}$ and gently curved inwards above inner margin; subterminal dot-like, obscure; a fine waved hindmarginal line, sometimes interrupted on veins: cilia blackish-fuscous. Hindwings with hindmargin sinuate above and below middle, causing anal angle to become somewhat prominent; whitish, somewhat fuscous-tinged around hindmargin and apex; a blackish discal dot; a fine blackish hindmarginal line; second line blackish, obscurely indicated by a row of fuscous dots, more pronounced on underside; cilia whitish.

Broken Hill, N.S.W.; seven specimens during April and May.

PYRALIDINA.

SEDENIA XEROSCOPA, n.sp.

♂♀. 19-22 mm. Head, thorax, palpi and antennæ light ochreous-fuscous, posterior half of thorax and abdomen grey-whitish, palpi beneath whitish. Legs ochreous-fuscous, posterior pair greyish. Forewings elongate-triangular, costa somewhat sinuate from base to middle, hindmargin obliquely rounded beneath; light ochreous-fuscous, darkest along costa and hindmargin; an obscure, moderately straight dark fuscous line, from $\frac{3}{4}$ of costa, gently curved to beneath cell, thence proceeding to inner margin at $\frac{2}{3}$, more obscure on lower half; a dull whitish spot on costa, preceding line; an obscure fuscous discal spot at end of cell: cilia greyish-ochreous, with fuscous median, terminal, and basal lines. Hindwings greyish; a fuscous discal spot: a gently curved fuscous line from costa at $\frac{3}{4}$, towards inner margin in middle but not reaching it; cilia greyish, fuscous-tinged at base. Markings of wings strongly produced on underside.

Broken Hill, N.S.W.; four specimens, in September.

SEDENIA POLYDESMa, n.sp.

♂. 16 mm. Head, thorax and palpi whitish, mixed with ochreous-fuscous, patagia ochreous-fuscous. Antennæ fuscous, obscurely annulated with white. Legs fuscous, posterior pair whitish, tibiæ with one or two obscure fuscous bands, anterior coxæ greyish-ochreous. Abdomen light ochreous. Forewings elongate-triangular, costa nearly straight, hindmargin rounded; grey-whitish, sprinkled with ochreous-fuscous scales, which tend to form 3 moderate transverse fasciæ; 1st from $\frac{1}{3}$ costa to $\frac{1}{3}$ inner margin, mixed with blackish and constricted on inner margin; 2nd more obscure, from about $\frac{2}{3}$ of costa to inner margin just before anal angle; 3rd irregularly waved, starting from a black spot on costa at $\frac{5}{6}$, finely attenuated at $\frac{3}{4}$, and appearing to join second line above anal angle: cilia greyish-ochreous, mixed with blackish, more pronounced round apex and middle of hindmargin. Hindwings light fuscous, with two darker fuscous transverse fasciæ, obscure, one from $\frac{3}{4}$ of costa, the other from middle of costa, both reaching half across wing, thence lost in general ground colour; a fine line of fuscous scales along hindmargin; cilia greyish, with a faint fuscous median line.

Broken Hill, N.S.W.; three specimens, in October.

SCOPARIA SUSANÆ, n.sp.

♂♀. 20-22 mm. Head, thorax, palpi and antennæ ashy-grey-fuscous, collar pale red, thorax beneath anteriorly pale red, abdomen fuscous, second and anal segments dull orange. Legs dark fuscous, coxæ pale red, tarsi with whitish rings. Forewings elongate-triangular, costa gently arched, hindmargin obliquely rounded beneath; dark fuscous; a blackish dentate line from $\frac{1}{4}$ of costa to $\frac{1}{3}$ inner margin; a roundish orange-red spot, encircled with black at base of cell; a second, outwardly oblique, much larger similar spot at end of cell, edged with blackish; an interrupted blackish line from beneath this spot to $\frac{2}{3}$ of inner margin; an obscure interrupted blackish line from $\frac{3}{4}$ of costa to anal angle; a row of irregular black dots along hindmargin; sometimes the

whole of the markings are lost in general ground colour, excepting the two orange spots, which then become more pronounced: cilia grey-whitish, chequered with blackish scales at base, and with a fuscous median line. Hindwings fuscous, darker round hind-margin; cilia whitish.

Broken Hill, N.S.W.; five specimens, in May and June.

Easily known by the orange-red spots on forewings; it is allied somewhat to *lichenopa*, Lower.

PSYCHINA.

PSYCHIDÆ.

OIKETECIS GYMNOPIASA, n.sp.

♂. 20 mm. Head, thorax and palpi dull ochreous-fuscous. Antennæ dark fuscous, pectinations blackish, about 6 at greatest length. Legs ochreous-fuscous. Abdomen ochreous. Forewings elongate, posteriorly slightly dilated, costa nearly straight, hind-margin rounded; whitish, faintly ochreous-tinged; a fine fuscous costal streak, attenuated at extremities, from base to near apex: cilia whitish. Hindwings whitish; cilia as in forewings.

Broken Hill, N.S.W.; two specimens, in March.

ZEUZERIDÆ.

ZEUZERA NEUROXANTHA, n.sp.

♂. 36-40 mm. Head and face pale ochreous. Palpi black. Thorax whitish, strongly mixed with black on posterior half, patagia whitish. Abdomen whitish, with moderately broad suffused segmental rings, anal tuft black. Antennæ blackish, whitish on basal half, pectinations blackish. Legs blackish, middle and posterior pair with obscure whitish tarsal rings. Forewings very elongate, costa nearly straight, hindmargin gently rounded, oblique; white, with black markings; all veins more or less outlined with yellow; a moderate cuneiform spot on costa at $\frac{1}{2}$, its apex reaching $\frac{1}{3}$ across wing, between this and base are 3 moderate costal spots, nearly equidistant; a second, somewhat outwardly

oblique, more or less cuneiform spot, apex obtuse, from costa at $\frac{2}{3}$, reaching nearly $\frac{1}{2}$ across wing, preceded on costa by 2 equidistant spots; 2 or 3 irregular spots on costa between apex and second cuneiform spot; lower half of wing more or less completely irrorated with large spots, not reaching apex or base, leaving lower $\frac{1}{2}$ of hindmargin clear; a moderate elongate clear whitish space above inner margin at $\frac{1}{3}$; 3 or 4 narrow blackish rings on lower $\frac{2}{3}$ of hindmargin: cilia whitish, chequered with black at extremities of veins. Hindwings with hindmargin rounded, somewhat sinuate in middle; whitish, strongly irrorated throughout with fuscous, except on base of costa and basal third of inner margin; markings towards hindmargin more blackish; cilia as in forewings, except inner marginal $\frac{2}{5}$ which is white.

Broken Hill, N.S.W.; two specimens, in October.

TINEINA.

ECOPHORIDÆ.

EULECHRIA PHOTINOPIS, n.sp.

♂♀. 24-25 mm. Head, thorax, palpi and antennæ fuscous, second joint of palpi internally grey-whitish, apical third of terminal joint ochreous-yellowish. Legs fuscous, tibiae and tarsi banded with obscure ochreous rings; posterior pair greyish. Abdomen fuscous, segmental margins dull yellowish. Forewings elongate, moderate, dilated posteriorly, costa hardly arched, apex rounded, hindmargin obliquely rounded; dull reddish-fuscous, shining somewhat; markings blackish, very obscure, veins more or less obscurely outlined with blackish scales, especially towards hindmargin; an irregular blackish elongate mark at end of cell; a very suffused narrow blackish line, from base to end of cell, sometimes obsolete; 2 or 3 clearer elongate spaces of ground colour in cell: cilia greyish-fuscous, with a blackish line at base. Hindwings grey; cilia greyish-fuscous, with an ochreous basal line.

Broken Hill, N.S.W.; several specimens, in July.

In the *melesella* group. Recalls species of *Phleopola* in general appearance; the strong antennal pecten, however, removes it from that genus.

EULECHRIA ERIOPA, n.sp.

♂. 16 mm. Head, thorax, palpi and antennæ white, antennæ faintly annulated with fuscous. Abdomen greyish. Legs fuscous, strongly mixed with whitish, posterior pair greyish. Forewings elongate, moderate, costa gently arched, hindmargin obliquely rounded; white; costa narrowly fuscous on anterior third; a fine short line from base to $\frac{1}{3}$, very obscure; some fuscous scales beneath middle of cell; hindmarginal and apical areas mixed with fuscous, especially immediately before apex on costa: cilia whitish, mixed with a few fuscous scales, ochreous at base. Hindwings grey, fuscous-tinged; cilia greyish ochreous.

Broken Hill, N.S.W.; two specimens, in October.

EULECHRIA PENTASPILA, n.sp.

♂♀. 19-22 mm. Head, thorax, palpi and antennæ ashy-grey-whitish, palpi beneath mixed with whitish. Legs grey-whitish, anterior and middle pair infuscated. Abdomen greyish-ochreous, with greyish segmental rings. Forewings elongate, moderate, rather narrow, costa gently arched, hindmargin oblique; ashy-grey-whitish, with dark fuscous markings; five moderate spots, first on fold at $\frac{1}{3}$, second just below, third at end of cell, fourth just below third, fifth before hindmargin in a direct line with first and third; sometimes a fine blackish line along fold and lower margin of cell, but this is generally obsolete: cilia ashy-grey-whitish, obscurely chequered with fuscous at extremities of veins. Hindmargin greyish-fuscous; cilia greyish, somewhat ochreous at base.

Broken Hill, N.S.W.; two specimens, in May.

LINOSTICHA PUDICA, n.sp.

♂. 20 mm. Head, thorax and palpi whitish, faintly ochreous-tinged. Antennæ fuscous, mixed with whitish. Legs grey-whitish, anterior and middle pair somewhat infuscated. Abdomen



ochreous, with silvery-grey segmental bands. Forewings elongate, moderate, costa gently arched, hindmargin obliquely and gently rounded; ochreous-whitish; costal edge obscurely and narrowly white; extreme costal edge towards base fuscous; a fuscous dot in disc at $\frac{1}{3}$ from base; a second, very obscure, below and before first, and a third, larger, at end of cell: cilia whitish-ochreous, tips greyish. Hindwings whitish; cilia whitish, slightly ochreous at base.

Broken Hill, N.S.W.; two specimens, in August.

Judging from the description of *L. cynoptera*, Meyr., this species is in the immediate neighbourhood.

TRACHYNTIS EREBOSMA, n.sp.

♂. 26 mm. Head and palpi pale flesh-colour, second joint of palpi externally fuscous at base, terminal joint fuscous-tinged. Thorax pale reddish. Abdomen ochreous. Legs fuscous, tibiae somewhat reddish-tinged, posterior pair ochreous. Forewings elongate, slightly dilated posteriorly, costa slightly arched at base, thence straight, apex rounded, hindmargin obliquely rounded; ochreous, more or less suffused with reddish-pink, except beneath costa on basal $\frac{2}{3}$, which is ochreous; a moderate elongate black dot on fold before $\frac{1}{3}$; a second, larger and roundish above and beyond first; a third obliquely placed at end of cell; a hindmarginal row of blackish dots, obscure in some specimens and somewhat confluent around apex: cilia salmon-colour. Hindwings fuscous; cilia ochreous, darker at base.

Broken Hill, N.S.W.; four specimens, in May.

Allied to *sarcosma*, Lower, but differs by the hindmarginal dots and colour of hindwings.

TRACHYNTIS SARCOSMA, Lower.

(*Eochrois sarcosma*, Lower, Trans. Roy. Soc. S.A. xx., 164, 1896.)

TRACHYNTIS PELOMA, n.sp.

♀. 25 mm. Head and palpi flesh-colour, second joint of palpi dark fuscous beneath. Thorax dull ferruginous. Antennae and

abdomen fuscous, basal joint of antennæ reddish. Legs ochreous, somewhat infuscated. Forewings elongate, moderate, costa gently arched, hindmargin obliquely rounded; pale flesh, more or less suffused with patches of reddish ferruginous, especially towards apex and hindmargin, and very finely irrorated throughout with blackish; a suffused blackish mark at base; a moderate whitish spot in middle, at $\frac{1}{3}$ from base, more or less encircled with reddish-fuscous; a similar, more distinct, spot at end of cell, beneath which is an irregular blackish mark going towards anal angle; a suffused blackish mark along hindmargin near base; an oblique suffused blackish mark from costa at $\frac{5}{6}$ reaching half across wing; a suffused row of blackish dots along hindmargin and apical fifth of costa: cilia greyish (imperfect). Hindwings dark fuscous: cilia dark fuscous.

Warrego, N.S.W.; one specimen (*Coll. Lyell*).

Obscurely marked but quite distinct.

Up to the present the genus *Trachyntis* has not been observed outside of Western Australia.

NEPHOGENES BASATRA, n.sp.

♂♀. 28-30 mm. Head, palpi and thorax fleshy-pink. Abdomen greyish-ochreous. Anterior and middle legs dark fuscous, posterior pair greyish-ochreous; all with more or less whitish tarsal rings. Forewings elongate, moderate, costa gently arched, hindmargin obliquely rounded; fleshy-red, minutely irrorated throughout with fuscous; a very sharply defined short black elongate mark, on inner margin close to base, appearing somewhat raised; a moderate fuscous dot in disc at $\frac{1}{3}$ from base, slightly above middle; a second, similar, immediately below and before it, and a third at end of cell; in some specimens with a fleshy spot immediately below; sometimes the whole of the forewings are infuscated, obliterating the discal dots but leaving the fleshy spot well defined and surrounded with fuscous: cilia fleshy-red, more or less mixed with fuscous, sometimes ochreous-fuscous. Hindwings pale fuscous; cilia ochreous-grey, with a blackish-fuscous basal line.

Broken Hill, N.S.W.; not uncommon in August, September and October. It is a sluggish insect and usually falls to the ground when disturbed.

Although showing some variation in the ground colour of the forewings, it is an easily recognised species by the sharply defined black basal mark, which is always present.

NEPHOGENES CRASSINERVIS, n.sp.

♂♀. 18-22 mm. Head, palpi, antennæ and thorax ashy-grey-fuscous, palpi beneath darker fuscous, basal joint of antennæ somewhat whitish, ciliations 1. Anterior and middle legs dark fuscous, posterior pair whitish-ochreous. Abdomen greyish, segmental margins whitish. Forewings elongate, moderate, costa gently arched, hindmargin oblique, gently rounded; ashy-grey-whitish, becoming more whitish in cell and towards hindmargin and apical area; a blackish line from base, continued along lower margin of cell, thence right around to upper margin, sometimes the whole of the cell is outlined with black, but the upper margin is generally obscure; a moderate, generally distinct, elongate spot in cell at $\frac{1}{5}$ from base, sometimes very obscurely continued right through cell; two or three more or less confluent dark fuscous elongate marks on upper margin of posterior end of cell; veins towards hindmargin more or less finely outlined with fuscous: cilia ashy-grey-whitish, darker at base, terminal third greyish. Hindwings pale greyish-ochreous, infuscated; cilia greyish-ochreous, somewhat infuscated around apex.

Broken Hill, N.S.W.; beaten commonly from *Bassia biftora*, in August and September.

Allied to *silignias*, Lower. Some specimens show a preponderance of white in the forewings, but the markings are constant, especially the outlining of the cell.

NEPHOGENES SUSANÆ, n.sp.

♂. 18-20 mm. Head, palpi, antennæ and thorax dark ashy-grey-fuscous, antennæ faintly annulated with whitish. Abdomen blackish, posterior segments outlined with yellow, anal tuft

orange-yellow. Legs dark fuscous, posterior pair yellow. Forewings elongate, moderate, costa gently arched, hindmargin oblique, gently rounded; dark ashy-fuscous; sometimes a darker fuscous patch on costa at $\frac{3}{4}$, obscurely continued across wing to anal angle, more pronounced at end of cell: cilia ashy-grey-whitish, tips more whitish; a few yellowish scales at base near anal angle. Under-side of wing strongly mixed with yellow; median area blackish. Hindwings bright orange-yellow; apex blackish, shortly continued along hindmargin and costa; a small patch of black scales at base: cilia yellow, more or less mixed with fuscous.

♀. 22-24 mm. Forewings as in ♂, but more whitish and with a fine distinct whitish costal streak throughout, indications of a fine white line from base in middle to $\frac{1}{3}$: cilia as in ♂. Hindwings dull ochreous, more or less infuscated on apical half: cilia as in ♂.

Broken Hill, N.S.W.; common in August; beaten from *Bassia biflora*, the leaves of which are an admirable imitation of the forewings of the species; the ♀ is much more retired in habit. The only known species with yellow hindwings.

I have dedicated this pretty and interesting little species to my mother, not so much for her entomological knowledge, but in grateful recognition of her unvarying kindness in attending to my large collection during my sojournings in the pursuit of entomology.

NEPHOGENES ATRISIGNIS, n.sp.

♂♀. 28-30 mm. Head, palpi, thorax, antennae and abdomen ashy-fuscous, base of second joint of palpi whitish and with a white ring at apex, terminal joint mixed with whitish. Legs dark fuscous, tibiae with whitish rings, posterior legs ochreous-whitish. Abdomen fuscous, becoming blackish on anal segments, anal tuft pale yellowish-ochreous. Forewings elongate, moderate, costa gently arched, apex rounded, hindmargin obliquely rounded; dark ashy-grey-fuscous, sprinkled with white, and with ferruginous on costa and hindmargin; a row of black disconnected subcostal spots along upper median vein; a similar row along lower median; a black lunate mark at end of cell; three elongate black longi-

tudinal marks, from near base above inner margin; a large blotch of dull white immediately beyond lunate mark, bounded posteriorly by a band of dull ferruginous along hindmargin; veins between blotch and hindmargin neatly outlined with black: cilia fuscous, mixed with ferruginous, and with a greyish median line. Hindwings elongate-ovate, slightly sinuate on inner margin near base; pale greyish; cilia greyish, with fuscous basal and sub-terminal lines.

Broken Hill, N.S.W.; two specimens at light, in May.

Allied to the following species.

NEPHOGENES EREBOMORPHA, n.sp.

♂♀. 38-42 mm. Head, palpi, thorax and antennæ dark fuscous, palpi beneath greyish. Legs dark fuscous, obscurely ringed with whitish except coxæ, posterior pair greyish-ochreous. Abdomen ochreous-grey, anal tuft yellowish. Forewings very elongate, moderate, costa gently arched, hindmargin obliquely rounded; blackish-fuscous, sparsely mixed with whitish; a fine whitish line along upper margin of cell, dotted throughout with fine black spots; a somewhat interrupted black line along lower margin of cell, and continued at end of cell to meet extremity of first-mentioned line; veins faintly indicated in black towards hindmargin; a hindmarginal row of elongate black dots: cilia blackish-fuscous, somewhat mixed with grey. Hindwings ochreous-grey; cilia greyish-ochreous, with a fuscous basal line.

Broken Hill, N.S.W.; four specimens in June, at light.

Closely allied to the preceding; best distinguished by its blackish colouring and large size. In markings it bears a very close resemblance to the preceding species, but I consider it quite distinct. It is one of the largest of the *Ecophoridae*.

ECOPHORA MEGALOPHACA, n.sp.

♂. 22-25 mm. Head, palpi, thorax and antennæ ashy-fuscous, palpi mixed with whitish. Legs dark fuscous, tarsi ringed with whitish, posterior legs ochreous-grey. Abdomen dull ochreous, three anterior segments fuscous. Forewings elongate-ovate, costa

gently arched, apex round-pointed, hindmargin obliquely rounded; ashy-grey, densely suffused with white, especially in disc and towards hindmargin; a blackish streak along lower median vein, but not nearly reaching base; an indistinct blackish crescentic mark at end of cell; a dull suffused fuscous patch immediately below, absent in some specimens; all veins more or less outlined with fuscous: cilia greyish, mixed with fuscous, and with a darker irregular basal line. Hindwings pale greyish; cilia pale greyish-ochreous.

Broken Hill, N.S.W.; five specimens, in May and June.

MACROBATHRA PHILOPSAMMA, n.sp.

♂. 20, ♀. 22 mm. Head dull ochreous; palpi ochreous, apex of second and median third of terminal joint fuscous. Abdomen ochreous. Antennæ and thorax fuscous, patagia fuscous. Legs ochreous-white, strongly banded with fuscous. Forewings elongate-lanceolate; dark bronzy-fuscous, with whitish-ochreous markings; a small spot at base, sometimes absent; three somewhat cuneiform spots on costa, at $\frac{1}{4}$, $\frac{1}{2}$, and about $\frac{3}{4}$, from each of which proceeds an oblique irregularly suffused dentate line towards inner margin, sometimes reaching it, but generally lost in general ground colour at $\frac{3}{4}$ of length: cilia dark fuscous, tips greyish. Hindwings ochreous-fuscous, somewhat darker towards apex; cilia ochreous-fuscous, becoming darker round apex.

Semaphore, South Australia; five specimens, in November.

GELECHIADÆ.

ATASTHALISTIS EUCHROA, n.sp.

♂. 15 mm. Head and thorax pale fleshy-ochreous. Abdomen fuscous, anal tuft yellowish. (Antennæ broken). Anterior legs dark fuscous, posterior and middle pair ochreous-whitish. Palpi fuscous. Forewings elongate, dilated posteriorly, costa slightly arched at base, thence straight, apex round-pointed, hindmargin nearly straight, sinuate in middle; pale fleshy-ochreous, with a few scattered blackish strigulæ; a well defined, somewhat elongate,

cuneiform, blackish patch, edged with whitish, on costa before middle, hardly reaching $\frac{1}{4}$ across wing, attenuated anteriorly; costa between base and patch spotted with fuscous; an interrupted series of about 10 fine elongate blackish spots, from costa at about $\frac{2}{4}$, around hindmargin, and ending on anal angle, those on hindmargin being placed on a much paler ground colour: cilia pale fleshy-pink, with 3 darker lines throughout, basal thickest. Hindwings with apex prominent; bright orange, posterior half of wing dark fuscous, darkest at apex; cilia fuscous, paler on inner margin.

Brisbane, Queensland; one specimen, in December.

GELECHIA (?) MESOLEUCA, n.sp.

♀. 20 mm. Head and palpi white, terminal joint of palpi blackish, second joint nearly smooth, not grooved. Antennæ $\frac{3}{4}$. black faintly annulated with white, basal $\frac{1}{2}$ blackish laterally. Thorax blackish, with two broad whitish longitudinal stripes throughout. Abdomen silvery-grey. Anterior and middle legs blackish, strongly suffused with whitish, posterior pair whitish. Forewings narrow, elongate; costa hardly arched, apex pointed; blackish; a broad white longitudinal median streak from base to apex; an elongate, somewhat indistinct, blackish spot before middle, resting on lower half of ground colour; a well defined black mark in white streak at $\frac{2}{3}$, nearer to costa than to inner margin: cilia greyish, strongly mixed with blackish, and with a sharply defined black apical streak, indicating continuance of ground colour. Hindwings thinly scaled, with apex somewhat pointed, hindmargin slightly sinuate beneath apex; pale fuscous, darker round apex; cilia greyish, ochreous-tinged.

Gisborne, Victoria; one specimen (*Coll. Lyell*), in April.

Doubtfully referable to *Gelechia*; the palpi being somewhat different in character.

GELECHIA TRIDECTA, n.sp.

♂♀. 14 mm. Head, thorax, palpi, antennæ, legs and abdomen fleshy-ochreous, patagia with a fuscous anterior spot, palpi with

fuscous apical and basal rings on each joint. Antennæ somewhat annulated with fuscous, all legs with fuscous bands somewhat indistinct. Forewings elongate, moderate, costa gently arched, hindmargin obliquely rounded; fleshy-ochreous, with fuscous purple markings, more or less edged with black; six costal spots between base and apex, 3 anterior largest, equidistant, posterior 3 much smaller and closer together; a large quadrate spot at base, reaching to $\frac{1}{6}$ along inner margin, much constricted on costa; a quadrate spot in middle of disc at $\frac{1}{3}$ from base; a similar but smaller spot at end of cell; an obscure fuscous suffusion towards apex; an obscure fuscous hindmarginal line, somewhat interrupted, edged internally with a fine line of ground colour: cilia fleshy-ochreous, fuscous-tinged. Hindwings with the apex hardly pointed; termen hardly sinuate; greyish-fuscous; cilia greyish, with a faint fuscous subbasal line.

Parkside, South Australia; five specimens, in August.

Allied to *G. hæmaspila*, Lower.

GELECHIA DICTYOMORPHA, n.sp.

♂. 20 mm. Head, palpi and thorax light ochreous, terminal joint of palpi with fuscous subapical ring, thorax with a whitish posterior spot. Antennæ nearly $\frac{3}{4}$, fuscous. Abdomen ochreous, posterior third fuscous-blackish. Legs ochreous-fuscous, posterior pair ochreous, slightly infuscated. Forewings elongate, moderate, costa gently arched, apex hardly pointed, hindmargin oblique; light ochreous, finely reticulated with fuscous and dark fuscous, which coalesces in disc at $\frac{1}{3}$ so as to form a fuscous blotch, indicating median portion of a transverse fascia; a similar, yet more obscure, fascia at end of cell, margins indistinct; costal edge from base to termination of second fascia more fuscous; a narrow obscure fuscous hindmarginal band: cilia greyish. Hindwings with termen slightly sinuate; greyish; cilia greyish, ochreous-tinged at base.

Broken Hill, N.S.W.; two specimens, in September.



GELECHIA ORTHANOTOS, n.sp.

♀. 12 mm. Head, antennæ, palpi, thorax and legs whitish-ochreous, terminal joint of palpi, and posterior $\frac{2}{3}$ of second fuscous beneath, patagia fuscous. Abdomen blackish, anal tuft whitish-ochreous. Forewings elongate, moderate, apex hardly pointed, hindmargin oblique; whitish-ochreous; a thick straight blackish line from base in middle, continued direct through to $\frac{3}{4}$, with very faint indications of its continuance to hindmargin below apex, where it becomes less obscure, and edged beneath by a pale yellowish patch; a few obscure fuscous scales along costa and hindmargin: cilia ochreous-whitish, mixed with a few fuscous scales. Hindwings with apex pointed, termen not sinuate beneath; dull bronzy-fuscous; cilia about $\frac{1}{2}$, whitish-ochreous.

Stawell, Victoria; one specimen, in November.

XENOLECHIA PELTOSEMA, n.sp.

♀. 9 mm. Head, palpi, antennæ and thorax ochreous, antennæ annulated, fuscous, second joint of palpi strongly infuscated externally, terminal joint with apical and median fuscous rings. Legs dark fuscous, tibiæ and tarsi banded with white. Abdomen greyish. Forewings elongate, moderate, costa hardly arched, apex pointed, hindmargin very oblique; dull ochreous; a suffused fuscous basal patch, outer edge nearly straight, from $\frac{1}{6}$ costa to $\frac{1}{6}$ inner margin; a well defined fuscous triangular patch, resting on inner margin before middle, reaching $\frac{2}{3}$ across wing, with a slight indentation on posterior edge; about six suffused fuscous costal marks, posterior largest, just before apex; a suffused fuscous mark touching anal angle; a few fuscous scales along hindmargin: cilia ochreous-fuscous. Hindwings with apex pointed, termen strongly emarginate; greyish-fuscous; cilia nearly 2; greyish-fuscous.

Broken Hill, N.S.W.; one specimen at light, in October.

CROCANTHES ZONODESMA, n.sp.

♂. 16 mm. Head, palpi and antennæ yellow, terminal $\frac{1}{2}$ of antennæ fuscous-tinged. Legs dull yellow, posterior pair fuscous.

Thorax yellowish, mixed with fuscous-purplish, patagia fuscous-purplish, with an orange spot posteriorly. Forewings moderate, slightly dilated posteriorly, costa hardly arched, apex somewhat pointed, hindmargin nearly straight, oblique; fuscous-purplish; markings dull orange; a narrow somewhat dentate, inwardly oblique fascia, from costa beyond $\frac{1}{3}$, to inner margin at $\frac{1}{3}$, emitting an obscure cuneiform spot from anterior edge below middle towards base; a large roundish spot in disc at $\frac{3}{4}$, almost reaching margins; a small elongate spot on costa near apex; a few blackish scales at apex: cilia yellow, with a row of more or less interrupted black marks at base. Hindwings with apex produced; termen sinuate beneath apex; dull bronzy-fuscous; cilia fuscous.

Rockhampton, Queensland; two specimens, in January.

PLUTELLIDÆ.

HOMADAULA COSCINOPA, n.sp.

♀. 14 mm. Head, thorax, palpi and antennæ blackish. Abdomen fuscous. Legs fuscous, anterior and middle pair mixed with whitish, tarsi with whitish rings, posterior pair greyish. Forewings elongate, moderate, costa gently arched, hindmargin oblique; whitish, irrorated with small black spots, more or less arranged in transverse series, becoming more dense on margins, leaving a basal patch of ground colour much whiter; an obscure elongate, somewhat cuneiform spot of black, from costa at $\frac{1}{3}$ to apex, reaching more than half across wing: cilia dark fuscous. Hindwings fuscous; somewhat bronzy; cilia light fuscous.

Broken Hill, N.S.W.; three specimens, in March.